WASTE MANAGEMENT PLAN VERSION 2: GEOTECHNICAL DRILLING PROGRAM AT THE NEW DELINE SOLID WASTE DISPOSAL FACILITY, DELINE, NT

1. INTRODUCTION

The Délı̨nę Got'ine Government (DGG) in conjunction with Stantec Architecture Ltd. (Stantec) has developed a Waste Management Plan (WMP) in support of the Land Use Permit (LUP) application for the geotechnical investigation at the new Délı̨nę Solid Waste Disposal Facility (SWDF), Délı̨nę, Northwest Territories. Solid wastes generated during the drilling program will be disposed of at a separate municipal landfill in Délı̨nę, which is currently in operation by the DGG.

2. PURPOSE AND OBJECTIVES

The WMP outlines the plan for effectively managing potential wastes generated during the geotechnical investigation. The objectives of the WMP are to minimize the generation of wastes, employ best management practices for waste handling, and to comply with applicable legislation, regulations, authorizations, permits, and licences.

Waste generated during the investigation will be minimal and consist of regular household garbage, drill/soil cuttings, and domestic sewage. Holes drilled will be backfilled with drill/soil cuttings, as much as possible, and remaining cuttings will be left on-site.

3. CONTACT INFORMATION

The Délı̨nę Got'ine Government (DGG) is the proponent for the geotechnical investigation. The DGG's contact for this Project is as follows:

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4. PROJECT DESCRIPTION

The DGG intends to complete a geotechnical investigation at the SWDF and install groundwater monitoring wells to support operations of the SWDF and renewal of the Class B Municipal Water Licence. The project will consist of a field drilling program, and a laboratory materials-testing program. Figures 1 and 2, below, provide an overview of the project location.

The geotechnical investigation is anticipated to occur over two days between February 15 and March 30, 2024. The investigation will consist of the following:

- Prior to the investigation, existing utilities will be reviewed and identified for avoidance.
- Drilling four boreholes (6" diameter) to a depth of 5 m, and one borehole (6" diameter) to a depth of 30 m.
- It is anticipated that soil sampling will consist of grab samples directly from solid stem augers at regular intervals of approximately 0.75 to 1.5 m or at any change in stratum.

- Installation of groundwater monitoring wells in the five boreholes, consisting of PVC pipe.
- Boreholes will be backfilled with excess soil (drill cuttings) generated during the drilling process, as well as sand pack and bentonite chips or grout to seal the hole.
- Prior to mobilizing to the Project location, Stantec will prepare a Health and Safety Plan (HSP) in accordance with territorial guidelines and Stantec's health and safety program. The HSP will provide clear direction to Project personnel, sub-contractors, and site visitors. The task-specific, site specific HSP will include a description of the proposed work, hazard recognition and assessment, hazard control, incident reporting and investigation and emergency response details. Stantec is anticipating using All Service Drilling Inc. to complete the field drilling program.

5. WASTE TYPES AND MANAGEMENT

The types of wastes anticipated to be generated for the geotechnical investigation include:

Garbage – This will consist of food scraps and associated packing waste. Garbage generated during the field investigation will be stored in a garbage bag and disposed of at the end of every day at the SWDF in Délı̨né. Materials that can be recycled will be placed in blue bags and deposited at an appropriate collection centre.

Residual Soil Cuttings – This will consist of residual soil from the auger cuttings during drilling. Soil cuttings will be used as backfill for the drilled boreholes.

Sewage (Sanitary) – As the Project site is located within a municipal setting, field personnel will use available washrooms in the nearest office, coffee shop, or restaurant.

No new infrastructure is required for the management of waste from the Project.